

G1 CH₂, O

Structure attributes must be viewed using STN Express query preparation.

=> S 11
SAMPLE SEARCH INITIATED 15:25:14 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.03

FULL FILE PROJECTIONS:	ONLINE	**COMPLETE**
	BATCH	**COMPLETE**
PROJECTED ITERATIONS:	2 TO	124
PROJECTED ANSWERS:	1 TO	80

L2 1 SEA SSS SAM L1

=> s 11 sss full
FULL SEARCH INITIATED 15:25:23 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 10 TO ITERATE

100.0% PROCESSED 10 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

L3 3 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 161.33 161.54

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FILE LAST UPDATED: 15 Dec 2005 (20051215/ED)

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=> s 13
L4 3 L3

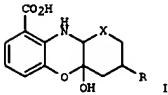
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work

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2003:737913 CAPLUS
 DOCUMENT NUMBER: 139:229345
 TITLE: Osteoclast differentiation inhibitors
 INVENTOR(S): Kumagai, Hiroyuki; Sameshima, Tomohiro; Matsufuji, Motoko; Kawamura, Naoto; Ishikawa, Kunio; Inoue, Hiroyuki; Someno, Tetsuya; Ishizuka, Masaaki; Takeuchi, Tomio
 PATENT ASSIGNEE(S): Merck Corporation, Japan; Zaidan Hojin Biseibutsu Kagaku Kenkyu Kai
 SOURCE: PCT Int. Appl., 25 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003076639	A1	20030918	WO 2003-JP2633	20030306
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DZ, EC, ES, FI, GB, GD, GE, GH, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LN, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MZ, NI, NO, NZ, OM, PH, PT, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZW	ZW, AM, AZ, BY, KG, YZ, MD, RU, TJ, TH, AT, BE, BG, CH, CY, CZ, DE, DK, ER, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BE, BJ, CF, CG, CH, GA, IN, QD, GW, ML, MR, NE, SN, TD, TG	AM, AZ, BY, KG, YZ, MD, RU, TJ, TH, AT, BE, BG, CH, CY, CZ, DE, DK, ER, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BE, BJ, CF, CG, CH, GA, IN, QD, GW, ML, MR, NE, SN, TD, TG		
EP 1489111	A1	20041222	EP 2003-710258	20030306
R: AT, BE, CH, DK, ES, FR, GB, GR, IT, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MX, CY, AL, TR, BG, CZ, EE, HU, SK	AT, BE, CH, DK, ES, FR, GB, GR, IT, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MX, CY, AL, TR, BG, CZ, EE, HU, SK	AT, BE, CH, DK, ES, FR, GB, GR, IT, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MX, CY, AL, TR, BG, CZ, EE, HU, SK		
US 2005124050	A1	20050609	US 2003-506975	20030306
PRIORITY APPLN. INFO.:			JP 2002-63046	A 20020308
			WO 2003-JP2633	W 20030306

GI



AB The osteoclast differentiation inhibitors (I: X = O or CH₂; R = OH when X = O, and R = H when X = CH₂) are manufactured with Cunninghamella and by chemical synthesis. Manufacture of F-1490 by culturing Cunninghamella, and chromatog.

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2003:280574 CAPLUS
 DOCUMENT NUMBER: 139:270769
 TITLE: ICM0201, a new inhibitor of osteoclastogenesis from Cunninghamella sp. F-1490. II. Structure determination and synthesis
 AUTHOR(S): Someno, Tetsuya; Inoue, Hiroyuki; Kumagai, Hiroyuki; Ishizuka, Masaaki; Takeuchi, Tomio
 CORPORATE SOURCE: Institute for Chemotherapy, H.C.R.F., Shizuoka, 410-0301, Japan
 SOURCE: Journal of Antibiotics (2003), 56(3), 214-218
 CODEN: JANTAJ; ISSN: 0021-8820
 PUBLISHER: Japan Antibiotics Research Association
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB ICM0201 (1), a new inhibitor of murine osteoclastogenesis in culture was isolated from a fermentation broth of Cunninghamella sp. F-1490. The structure of ICM0201 was determined to be (3S,10aR)-3,4a-dihydroxy-2,3,4,4a-tetrahydro-2H-pyrano[3,2-b]benzo[e] morpholine-9-carboxylic acid by spectroscopic analyses and chemical studies. The structure of 1 is unique in that the tricyclic ring system is composed of aminal and hemiacetal bonds.
 IT 581092-44-6P, ICM 0201
 RL: NPO (Natural product occurrence); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); RACT (Reactant or reagent); USES (Uses); (osteoclastogenesis inhibitor ICM0201: isolation from Cunninghamella, structure determination and preparation)
 RN 581092-44-6 CAPLUS
 CN Pyrano[3,2-b][1,4]benzoxazine-9-carboxylic acid, 2,3,4,4a,10,10a-hexahydro-3,4a-dihydroxy-, (3S,10aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

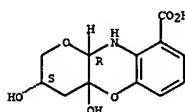
IT 607376-23-8P, (+)-ICM 0201
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); (osteoclastogenesis inhibitor ICM0201: isolation from Cunninghamella, structure determination and preparation)
 RN 607376-23-8 CAPLUS
 CN Pyrano[3,2-b][1,4]benzoxazine-9-carboxylic acid, 2,3,4,4a,10,10a-hexahydro-3,4a-dihydroxy-, (3S,10aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 isolation of F-1490 from farmn. filtrate were shown. Also shown was chem. synthesis of F-1490A from 3-hydroxyanthranilic acid and 1,2-cyclohexandione in the presence of sodium borohydride. The physiol. and morphol. characteristics of Cunninghamella and physicochem. characteristics of F-1490 were also given.

IT 581092-44-6P, Osteoclast differentiation inhibitor F-1490
 RL: BPN (Biological preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses); (osteoclast differentiation inhibitors manufacture with Cunninghamella)
 RN 581092-44-6 CAPLUS
 CN Pyrano[3,2-b][1,4]benzoxazine-9-carboxylic acid, 2,3,4,4a,10,10a-hexahydro-3,4a-dihydroxy-, (3S,10aR)- (9CI) (CA INDEX NAME)

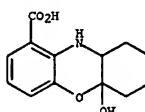
Absolute stereochemistry.



IT 593253-87-3P, Osteoclast differentiation inhibitor F-1490A
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses); (osteoclast differentiation inhibitors manufacture with Cunninghamella)

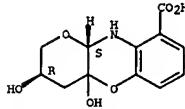
RN 593253-87-3 CAPLUS
 CN 1H-Phenoxazine-9-carboxylic acid, 2,3,4,4a,10,10a-hexahydro-4a-hydroxy- (9CI) (CA INDEX NAME)

Currently available stereo shown.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

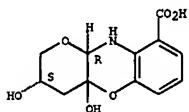
L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2003:280573 CAPLUS
 DOCUMENT NUMBER: 139:173743
 TITLE: ICH0201, a new inhibitor of osteoclastogenesis from Cunninghamella sp. F-1490. I. Taxonomy, fermentation, isolation and biological activities
 AUTHOR(S): Inoue, Hiroyuki; Kumagai, Hiroyuki; Osono, Michiyo; Matsufuji, Motoko; Sameshima, Tomohiro; Kawamura, Naozou; Someno, Tetsuya; Ishizuka, Masaki; Takeuchi, Tomo
 CORPORATE SOURCE: Institute for Chemotherapy, M. C. R. F., Shizuoka, 410-0301, Japan
 SOURCE: Journal of Antibiotics (2003), 56(3), 209-213
 CODEN: JANTAU; ISSN: 0021-8620
 PUBLISHER: Japan Antibiotics Research Association
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB In the course of screening for inhibitors of osteoclastogenesis, a new substance designated as ICH0201 was isolated from a fermentation broth of Cunninghamella sp. F-1490. ICH0201 inhibited the formation of osteoclasts in mouse bone marrow cells with an IC50 value of 0.78 µg/mL and showed weak cytotoxicity against bone marrow cells.
 IT 591092-44-6P, ICH 0201
 RL: ADV (Adverse effect, including toxicity); BPN (Biosynthetic preparation); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses);
 (ICH020 isolation from Cunninghamella, osteoclastogenesis inhibition, and cytotoxicity against tumor cell lines)
 RN 591092-44-6 CAPLUS
 CN Pyrano[3,2-b][1,4]benzoxazine-9-carboxylic acid, 2,3,4,4a,10,10a-hexahydro-3,4a-dihydroxy-, (3S,10aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT